

SUPPLEMENTARY NOTES ON AMERICAN MENISPERMACEAE. XII.
NEOTROPICAL TRICLISIEAE AND ANOMOSPERMEAE

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Introduction

Since the latest paper in this series (Supplement XI) was published, 47 new collections were examined, adding to our knowledge of several species. Extensions of ranges were noted for four species, but no new species were described. Two new collections of poorly collected and poorly understood Anomospermum matogrossense were of particular interest.

The chemical work on neotropical Triclisieae and Anomospermeae by Prof. Michael P. Cava and his associates continues, as may be seen from the bibliography. Abuta splendida, Sciadotenia toxifera and Abuta grisebachii were studied, and four new benzylisoquinoline alkaloids (krukovine, sciadenine, grisabine, and grisabutine) were isolated and characterized.

Of the 16 known New World genera of Menispermaceae, chromosomes were studied of only four genera (Calycocarpum, Menispermum, Cocculus, and Cissampelos). Dr. William L. Theobald, director of Pacific Tropical Botanical Garden in Hawaii, is now receiving seeds, largely from the collectors of MO and NY. It is interesting that the first two batches of seeds were sent by Dr. J.-J. de Granville from French Guiana. They were of the recently described remarkable Elephantomene eburnea and Anomospermum sp.; seeds of these germinated four to five months after planting.

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I. Chondrodendron Ruiz & Pavon, Syst. Veg. 261. 1798.

1. Chondrodendron tomentosum Ruiz & Pavón, Syst. Veg. 261. 1798.

Colombia: Comisaría de Caquetá: I. Cabrera 3656. Perú: San Martín: Timothy Plowman 6032, J. Schunke 8268 (Mariscal Cáceres, Tocache Nuevo).

This is the first record of this species from Comisaría de Caquetá.

II. Curarea Barneby & Krukoff, Mem. N. Y. Bot. Gard. 22(2): 7. 1971.

1. Curarea toxicofera (Weddell) Barneby & Krukoff, Mem. N. Y. Bot. Gard. 22(2): 9. 1971.

Panamá: Canal Zone: tropical wet forest, S. Mori 7946.

2. Curarea candicans (L. C. Richard) Barneby & Krukoff, Mem. N. Y. Bot. Gard. 22(2): 12. 1971.

Brazil: Pará: entre Acará e Mojú, R. R. Santos 402.

III. Sciadotenia Miers, Ann. Nat. Hist. II. 7: 43. 1851.

2. Sciadotenia toxifera Krukoff & A. C. Smith, Bull. Torrey Club 66: 308. 1939.

Perú: San Martín: Mariscal Cáceres, Tocache Nuevo, J. Schunke 45, 47.

9. Sciadotenia brachypoda Diels in Engler, Pflanzenreich 4(94): 84. 1910.

Brazil: Rondônia: Prance et al. P21280.

This is the first record of this species from Rondônia.

V. Telitoxicum Moldenke in Krukoff & Moldenke, Brittonia 3: 42. 1938.

1. Telitoxicum minutiflorum (Diels) Moldenke in Krukoff & Moldenke, Brittonia 3: 49. 1938.

Brazil: Acre: L. R. Marinho 133.

This is the first record of this species from the State of Acra.

VI. Abuta Barrère ex Aublet, Pl. Guian.
1: 618. Pl. 250. 1775.

6. Abuta aristeguietae Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20(2): 21. 1970.

Costa Rica: Alajuela: finca Los Ensayos, Zapote de Alfaro Ruiz, H. Barquero 1977/1, 1977/2.

9. Abuta pahnii (Martius) Krukoff & Barneby, Mem. N. Y. Bot. Gard. 22(2): 43. 1971.

Venezuela: Tachira: Al. Gentry & L. Puig-Ross 14301 (MO).
Perú: San Martín: Mariscal Cáceres, Tocache Nuevo, J. Schunke 49, 50.

14. Abuta selloana Eichler, Flora 47: 389. 1864.

Brazil: Rio de Janeiro: J. B. R. 140813.

16. Abuta solimoesensis Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20(2): 18. 1970.

Perú: San Martín: Mariscal Cáceres, Tocache Nuevo, J. Schunke 41, 51.

17. Abuta velutina Gleason, Bull. Torrey Club 58: 361. 1931.

Venezuela: Amazonas: Al. Gentry & Paul Berry 14506 (MO).
Brazil: Rondônia: M. R. Cordeiro 634. Perú: San Martín: Mariscal Cáceres, Tocache Nuevo, J. Schunke 8143.

This is the first record of this species from Rondônia.

25. Abuta panamensis (Standley) Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20(2): 22. 1970.

Mexico: Chiapas: mun. Ocozocoautla, alt. \pm 900 m, Breedlove 23348; mun. Berriozábal, alt. \pm 900 m, lower montane rain forest, Breedlove & Thorne 30779.

27. Abuta grandifolia (Martius) Sandwith, Kew Bull. 1937: 397. 1937.

Guiana: near Pirara, Rich. Schomburgk 107/696 (L). Brazil: border of French Guiana & Surinam, region of Tumac-Humac, C. Sastre 1601, 1607, 1668a, 1785; Roraima: between Boa Vista & Caracarai, J. M. Pires & Leite 14754; Mato Grosso: D. Philcox & A. Ferreira 4571, Hatschbach 35974 (mun. Rio Verde). Colombia: Comisaría de Coquetá: Cabrera 3650. Perú: Loreto: Flowman

2521 (Río Nanay), R. Martin et al. 1760 (K) & 1752 (K) (Río Napo), 1650 (K) & 1696 (K) (Iquitos). Ecuador: Napo: Río Aguarrico, alt. 220 m, Benkt-Sparre 13082 (S).

29. Abuta dwyerana Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20(2): 73. 1970.

Panamá: Canal Zone: D'Arcy 9301.

VIII. Anomospermum Miers, Ann. Nat. Hist. III, 14: 101. 1864.

5a. Anomospermum reticulatum (Martius) Eichler ssp. reticulatum, Mem. N. Y. Bot. Gard. 22(2): 73. 1971.

Brazil: Pará: Estrada Transamazônica entre Estreito e Marabá, B. G. S. Ribeiro & Pinheiro 1299; Rondônia: margem do Rio Machado, M. R. Cordeiro 531.

5f. Anomospermum reticulatum (Martius) Eichler ssp. venezuelense Krukoff & Barneby, Mem. N. Y. Bot. Gard. 22(2): 76. 1971.

Venezuela: Mérida: alt. + 500 m, A. L. Bernardi 3841 (MO).

7. Anomospermum matogrossense Krukoff & Barneby, Mem. N. Y. Bot. Gard. 20: 33. 1970.

Brazil: Pará: Alto Tapajos, Rio Cururú, 1-10 km upriver from village Prataí, várzea, edge of river at flood level, W. R. Anderson 10861 (NY, IAN); Rondônia: margem do Rio Urupá, M. R. Cordeiro 563.

Anderson's specimen was erroneously cited as "Orthomene schomburgkii" in Suppl. XI (Phytologia 33: 335. 1976), also in List of Exsiccatae (p. 337).

IX. Orthomene Barneby & Krukoff, Mem. N. Y. Bot. Gard. 22(2): 79. 1971.

1. Orthomene schomburgkii (Miers) Barneby & Krukoff, Mem. N. Y. Bot. Gard. 22(2): 80. 1971.

Surinam: Maguire 55429. Brazil: Amazonas: basin of Rio Negro, L. R. Marinho 384. Perú: Loreto: Maynas, Al. Gentry et al. 15863.

X. Elephantomene Barneby & Krukoff, Lloydia 37: 27. 1974.

1. Elephantomene eburnea Barneby & Krukoff, Lloydia 37: 28. 1974.

Guyane: Cayenne: Saïi, plateau "La Douane," forêt dense (parcelle Orstom), J.-J. de Granville 2704. DeGranville reports: "liane énorme, de 25 cm de diam à la base, épanouie dans la voûte à 40-50 mètres de haut."

This is the second collection of this species.

Bibliography

(In order to conserve space, I am citing only the papers which are not cited in Supplements VII-XI.)

1. Cava, Michael P., et al. Krukovine, a new bisbenzylisoquinoline alkaloid from Abuta splendida Krukoff & Moldenke. Jour. Org. Chem. 41: 317-319. 1975.
2. Cava, Michael P., et al. Sciadenine, a new bisbenzylisoquinoline alkaloid from Sciadotenia toxifera. Heterocycles 4: 471-474. 1976.
3. Cava, Michael P., et al. Grisabine and grisabutine, new bisbenzylisoquinoline alkaloids from Abuta grisebachii. To be published in Jour. Org. Chem. in May 1977.
4. Krukoff, B. A. Supplementary notes on American Menispermaceae XI. Neotropical Triclisiaae and Anomospermeae. Phytologia 33: 323-341. 1976.